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APPLICATION NO.		ING DATE			
ATTEICATION NO.	FIL	INGDATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004,453	12/05/2001		David S. Soane	ZMSI001PPP2	9742
20350	7590	08/11/2003			5
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TWO EMBA			EXAMINER		
EIGHTH FLO	OOR		MULLIS, JEFFREY C		
SAN FRANC	ISCO, CA	94111-3834			
	,			ART UNIT	PAPER NUMBER
•				1711	
			DATE MAILED: 08/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		A						
, i	Application No.	Applicant(s)						
Office Action Summary	10/004,453	SOANE ET AL.						
,	Examiner	Art Unit						
The MAILING DATE of this communication and	Jeffrey C. Mullis	1711						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any - Status								
1) Responsive to communication(s) filed on <u>02 M</u>	<u>ay 2003</u> .							
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4) Claim(s) 1-18 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Claim(s) <u>1-11</u> is/are allowed.								
6)⊠ Claim(s) <u>12-18</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement. Application Papers								
9) The specification is objected to by the Examiner.	9)☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a)								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents h	2. Certified copies of the priority documents have been received in Application No							
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) S. Patent and Trademark Office		PTO-413) Paper No(s) tent Application (PTO-152)						
TO-326 (Rev. 04-01)								

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Applicant's election of the species of dead polymer of ZEONOR 1020R; isobornyl methacrylate reactive plasticizer in Paper No. 4 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

The election of species with regard to claims 1-11 is hereby withdrawn.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) The invention was described in (1) an application for patent, published under Section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12-18 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Nakatsukasa et al. (USP 5,185,234).

Nakatsukasa et al. disclose a composition containing a styrene butadiene block copolymer and a liquid rubber compound which acts to soften the composition and make it kneadable such that a sheet can be formed from that material. Note for instance Examples 3 and 4 in this regard. Note that the material is held at 100° for 3 minutes. Since a mold acts to force material into the shape of the mold, the material would flow at least in part outwardly to fill those parts of the mold not filled by the molding material. While the liquid 1,2 polybutadiene is not explicitly disclosed to be a plasticizer to the styrene isoprene block copolymer, the fact the polybutadiene is chemically similar to the isoprene block of the styrene isoprene block copolymer in that both blocks are characterized by polymerization of dienes, such a characteristic would reasonably appear to be inherent and the polybutadiene liquid would therefore reasonably appear to be inherently plasticizing.

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When the reference discloses all the limitations of a claim except a property or function, and the Examiner cannot determine whether or not the reference inherently possesses properties which anticipate or render obvious the claimed invention, basis exists for shifting the burden of proof to applicant. Note <u>In refitzgerald et al.</u> 619 F. 2d 67, 70, 205 USPQ 594, 596, (CCPA 1980). See MPEP § 2112-2112.02.

Claims 12, 13, 15, 16 and 18 are rejected under 35 U.S.C. § 102(b) as being anticipated by Ishikawa et al. (USP 6,140,450).

Ishikawa et al. disclose a reactive plasticizer containing composition (column 1 lines 55-63) containing various rubbers at column 15 lines 15-25. Note the Example at column 18 lines 10-17 where the active plasticizer is mixed with a polymer. Note the Example again at column 18 lines 10-25 where the material is kneaded and therefore is in the form of a semisolid since a liquid or solid could not be said to be kneaded. Note also that the material is molded and as material in a mold flows during the process, the limitations of claim 15 can be said to be met.

Claims 12-18 are rejected under 35 U.S.C. § 102(b) as being anticipated by Muskat (USP 3,557,046).

Muskat discloses a composition which is a blend of PVC and a reactive plasticizer which can be shaped and cured. Note the Abstract as well as the Examples including Example 1 where a reactive plasticizer such as 1,3-butylene glycol dimethacrylate

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is combined with polyvinyl chloride to form a gel, embraced by applicants' semisolid which is heated for one minute at 115° and subsequently thermoset by heating for 3 minutes at 150° (column 9 lines 40-58). As the material flows in a mold, the limitations of claim 15 would appear to be met. Note that the heating period at 1 minute does not result in cure at column 7 lines 58-66 but that subsequent curing takes place.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey Mullis whose telephone number is (703) 308-2820. The examiner can normally be reached on Monday-Friday from 9:30 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on (703) 308-2462. The fax phone number for this Group is before final (703) 872-9310 and after final (703) 8729311.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2351.

J. Mullis:cdc

August 7, 2003

Jeffrey Mullis Primary Examiner Art Unit 1711